

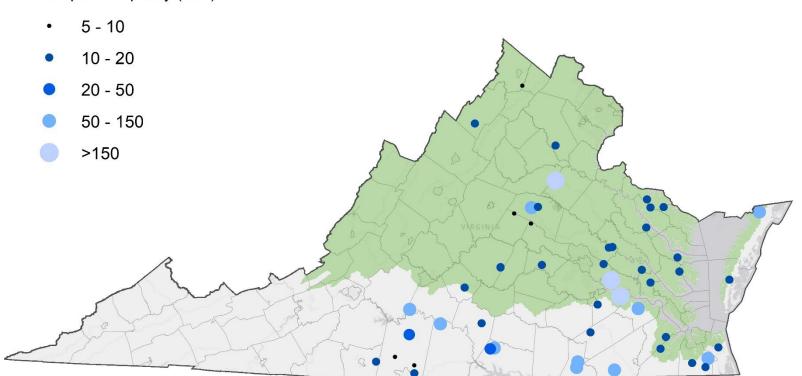




#### Large-Scale Solar Facilities in Virginia

Active Virginia Solar Facilities (52)\*

Nameplate Capacity (MW)



<sup>\*</sup>Active Facilities as of May 1, 2022

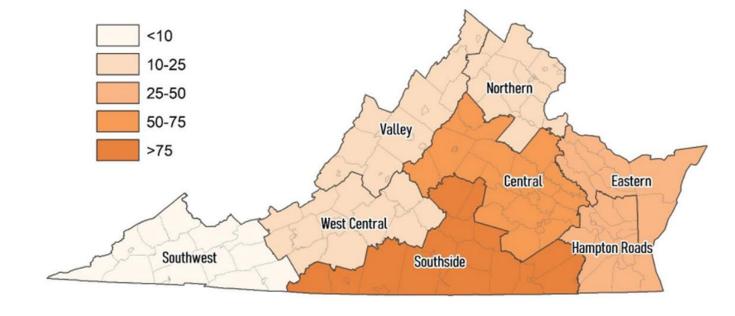




# Drivers of Large-Scale Development in VA

- Virginia Clean Economy Act of 2020 (VCEA)
- Land availability
- Local economic opportunity
  - Siting Agreements and Revenue Sharing
- Concentration of data centers

Local Applications for Large-Scale Solar Facilities (>500 kW) by Region- <u>Virginia Solar Survey</u>







# Virginia Clean Economy Act (VCEA) - 2020

- Dominion Energy and Appalachian Power to retire carbonemitting sources by midcentury
  - Electric Cooperatives are not mandated by the VCEA
    - Main power supplier of the cooperatives (ODEC) has a net-zero goal
- Establishes mandatory Renewable Portfolio Standard (RPS): 100% clean energy sources by 2050:
  - Dominion: 40% by 2030; 100% by 2045
  - APCo: 30% by 2030; 100% by 2050
  - Requires at least 1 RFP per year from Dominion and APCo
- 2024 deadline to retire coal-fired power plants

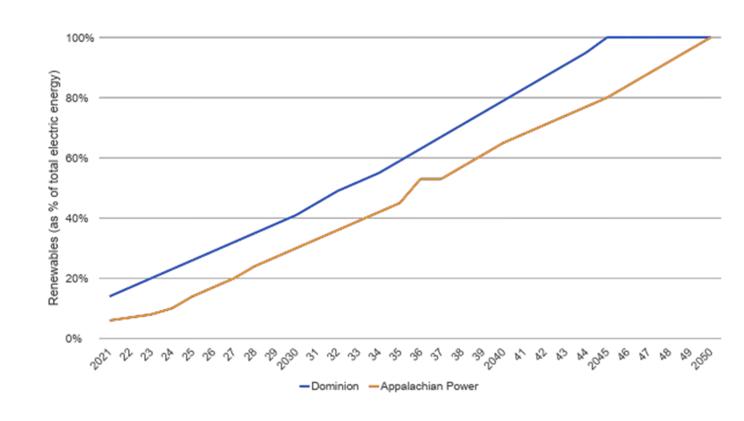






# Virginia Clean Economy Act - 2020

- Deems in the public interest by 2035:
  - 16,100 MW of solar and onshore wind
    - 1,100 MW of solar facilities not to exceed 3 MW
    - 200 MW on previously developed sites
    - 100 MW large rooftop solar installations (>50 kW)
  - 2,700 MW of energy storage
  - 5,200 MW of offshore wind







### Findings from the Virginia Solar Survey

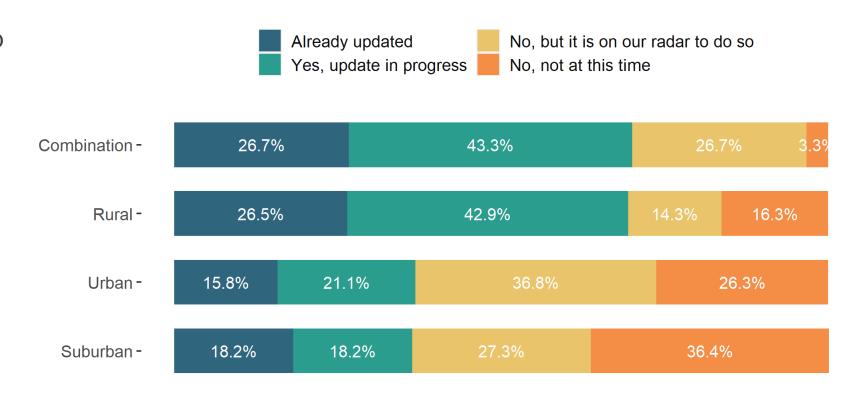
Is your locality preparing to update it solar policies, regulations and/or application and permitting processes?

(n=109)

Survey Totals:

-37%: Update in Progress

-24%: Already updated



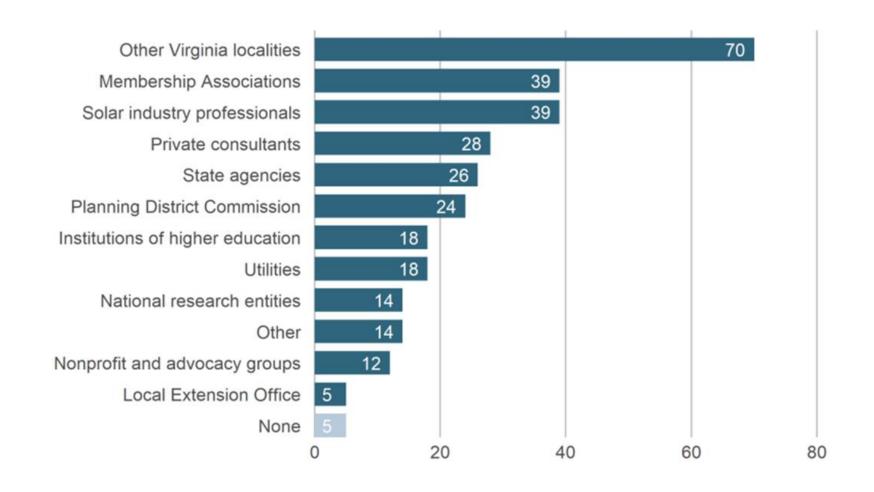




#### Findings from the Virginia Solar Survey

What resources are your locality turning to for support and assistance in developing new policies and ordinances?

(Choose all that apply, n=109)

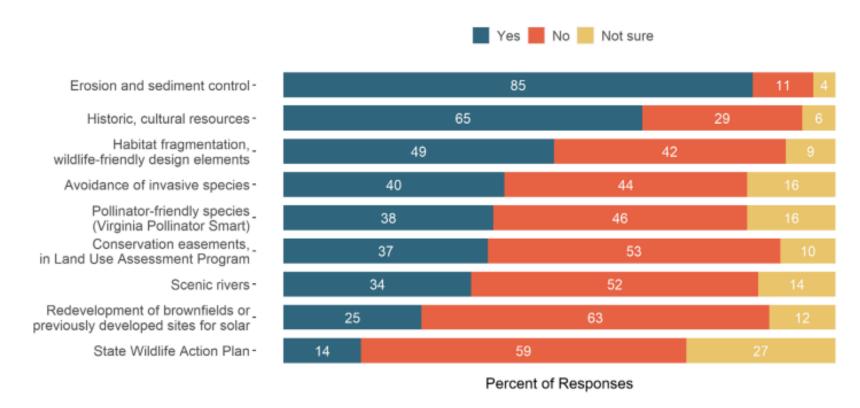






#### Findings from the Virginia Solar Survey

Do your local regulations specify criteria for the evaluation of the following topics when reviewing a utility-scale solar facility application? (n=109)







### Relevant New Legislation and Guidance

DEQ's Small Renewable Energy Projects (Solar) Permit by Rule (PBR)

- PBR review by DEQ for solar projects greater than 5 MW or 10 acres
- Shorter Sec. 130 application for projects below 5 MW or less than 10 acres
- SCC reviews projects above 150 MW
- <u>HB 206</u> (2022)\* Large-scale solar projects permitted by DEQ's Permit-by-Rule (PBR) process will be subject to mitigation if they have significant adverse impacts
  - Significant adverse impacts includes:
    - More than **10 acres** of prime agricultural soils (USDA)
    - More than **50** acres of contiguous forest lands
  - Will not impact projects with interconnection approval before December 31, 2024
  - Rulemaking will be led by DEQ in the coming months





### Relevant New Legislation and Guidance

- HB 894 (2022)\* Virginia Cooperative Extension to develop a map/repository of prime farmland to assist localities in siting determinations of solar facilities.
  - Initial report on development of a map submitted by December 1, 2022
  - Includes Department of Agriculture and Consumer Services, Forestry, Conservation and Recreation, and Energy
- <u>HB 774/SB 499</u> (2022)\* The State Corporation Commission (SCC) will convene stakeholder workgroups to analyze the life cycle of renewable energy facilities.
  - Representatives of local governments are specifically mentioned as a stakeholder
  - Study recycling, waste strategies, liability for decommissioning, impacts on life cycle of farming/forestry, and beneficial economic impacts.
  - Initial report submitted by May 1, 2023





#### Opportunities on Mined Land, Brownfields

- Office of Innovative Reclamation
  - Repurposing mined land to include renewable energy development
  - Connecting operators, land owners, and developers to opportunities on mined land properties
- Brownfield & Coal Mine Renewable Energy Grant Fund Program
  - \$35M to be allocated to the program
    - \$20M reserved for previously coal mined land projects
    - \$10M per project limit on previously coal mined sites
    - \$5M per project limit on brownfields sites
  - Incentives:
    - \$500/kW for projects located on previously mined lands and \$100/kW for projects located on brownfields
  - Still Awaiting Funding for this Program
- Virginia Energy completing a Handbook for Renewable Energy and Energy Storage
  Development on Brownfields and Previously Coal Mined Lands in the coming months





# **DEQ Stormwater Management**

#### March 29 Memo

- Solar panels and base posts statewide will be considered impervious areas for the calculations water quantity runoff and water quality calculations TMDL
- Specific agency guidance documents to be drafted and approved

#### April 14 Memo

Will apply to projects that do not obtain an interconnection approval by December 31,
 2024





